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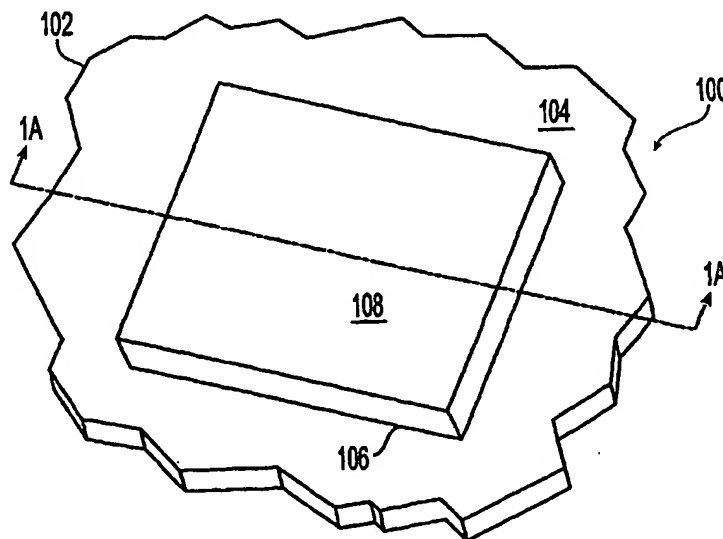
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- (71) Applicant (for all designated States except US): **MEM-LINK LTD. [IL/IL]; Hataas Street 4, 52512 Ramat Gan (IL).**
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **CHERTKOW, Roberto, Igal [IL/IL]; Hermon St. 6B/8, 77709 Ashdod (IL).**
- (54) Agent: **FRIEDMAN, Mark, M.; Beit Samueloff, Haomanim Street 7, 67897 Tel Aviv (IL).**
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(54) Title: **MICROELECTROMECHANICAL DEVICE WITH MOVING ELEMENT**



(57) Abstract: A microelectromechanical (MEMS) device (100) has a substrate (102) and a generally planar moving element (106), such as a mirror, disposed in parallel to the surface (108) of the substrate. An actuator is operatively engageable with the moving element (106) for selectively actuating the moving element (106) between a first position in a plane horizontal to the surface of the substrate and a second position in that plane. The MEMS device (100) may be effectively used as an optical switch. Various different actuators can be used. Preferably, the device is fabricated using a surface micromachining process.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G02B 26/02 US CL : 359/230, 224; 385/18, 19 According to International Patent Classification (IPC) or to both national classification and IPC														
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 359/230, 224, 198, 199, 214, 221, 223, 226 385/18, 19, 16, 17, 20-24 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)														
C. DOCUMENTS CONSIDERED TO BE RELEVANT														
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.												
X	US 5,914,801 A (Dhuler et al.) 22 June 1999 (22/06/99) see figure 1A and cols. 5 and 6	1-38												
X,P	US 6,134,042 A (Dhuler et al.) 17 October 2000 (17/10/2000) see figure 1A and cols. 5 and 6	1-38												
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.														
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Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230		Authorized officer PHAN T. H. PALMER <i>[Signature]</i> Telephone No. (703) 308-4848												